

REMARKS

By this Office Action, the Examiner has required restriction to one of the following inventions:

I. Claims 20-26, drawn to ONE isolated nucleic acid, a vector thereof, and cultured cell, classified in class 536, subclass 23.1; class 435, subclasses 69.1, 320.1, 325.

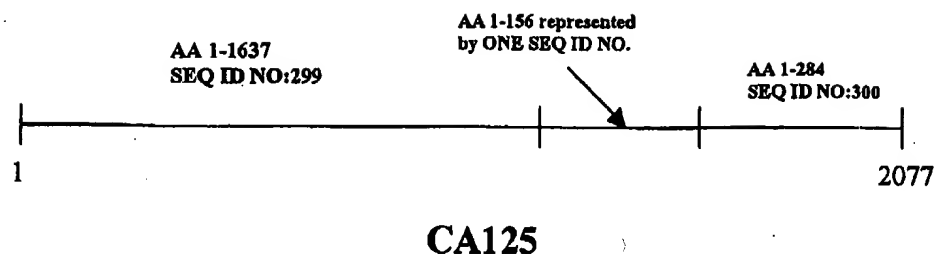
(Upon election of Group I above, Applicant must further elect ONE nucleic acid from those listed in Claim 20, part a, and ONE corresponding encoded polypeptide from those listed in Claim 21, part a, as each sequence represents a separate invention, not a species. Additionally, Claim 26 will only be examined to the extent it reads on the elected sequence(s).)

II. Claims 14-19, 27, 30-33 drawn to ONE purified polypeptide, classified in class 530, subclass 350; class 424, subclass 184.1.

(Upon election of Group II above, Applicant must further elect ONE polypeptide sequence from those listed in Claim 27, part a, as each sequence represents a separate invention, not a species. Claims 14-19 will only be examined to the extent they read on the elected sequence.)

III. Claims 1-12, drawn to ONE CA125 molecule comprising an extracellular domain of SEQ ID NO.: 299, ONE repeat domain, and ONE cytoplasmic domain comprising SEQ ID NO.: 300, classified in class 530, subclass 350.

(Upon election of Group III, Applicant must further elect ONE multiple repeat domain corresponding to ONE linear sequence identifier comprising amino acids 1-156 of domains 1-5. For example, upon election, of Group III, a search and examination of a 2077 AA polypeptide will take place as set forth below:



IV. Claim 13, drawn to a CA125 molecule comprising SEQ ID NO.: 162, classified in class 530, subclass 350.

V. Claims 28-29 drawn to a purified antibody that binds to ONE polypeptide, classified in class 530, subclass 387.1.

(Upon election of Group V above, Applicant must further elect ONE polypeptide sequence from those listed in Claim 28, part a, as each sequence represents a separate invention, not a species.)

VI. Claim 34, drawn to ONE antisense molecule, classified in class 800, subclass 286.

(Upon election of Group VI above, Applicant must further elect ONE nucleic acid from those listed in Claim 20, part a, as each sequence represents a separate invention, not a species.)

Responsive to the Requirement for restriction, Applicant elects to prosecute the invention of group III, with traverse Claims 1-12 drawn to one polypeptide. The applicant elects the repeat domain as shown in SEQ ID NO. 150 for examination.

Applicants respectfully request reconsideration of the Requirement for Restriction, or in the alternative, modification of the Restriction Requirement to allow prosecution of more than one group of Claims designated by the Examiner in the present Application, for the reasons provided as follows.

Under 35 U.S.C § 121 “two or more independent and distinct inventions . . . in one Application may . . . be restricted to one of the inventions.” Inventions are “independent” if “there is no disclosed relationship between the two or more subjects disclosed” (MPEP 802.01).

The term “distinct” means that “two or more subjects as disclosed are related . . . but are capable of separate manufacture, use or sale as claimed, AND ARE PATENTABLE OVER EACH OTHER” (MPEP 802.01) (emphasis in original). However, even with patentably distinct inventions, restriction is not required unless one of the following reasons appear (MPEP 808.02):

1. Separate classification
2. Separate status in the art; or
3. Different field of search.

Further, under patent Office Examining Procedures, “[i]f the Search and Examination of an entire Application can be made without serious burden, the Examiner must examine it on the merits, even though it includes claims to distinct or independent inventions” (MPEP 803, Rev. 8, May 1988) (emphasis added).

The Examiner’s assertions to the contrary notwithstanding, Applicants respectfully submit that conjoint examination and inclusion of all of the Clams of the present Application would not present an undue burden on the Examiner, and accordingly, withdrawal of the Requirement for Restriction.

With respect to the requirement to elect a single species for examination on the merits, Applicants respectfully traverse this requirement for the following reasons:

I. Claim 1(b) providing the multiple repeat domains does not include a genus species relationship

Claim 1(b) relates to a multiple repeat domain. A CA125 molecule can include a variety, if not all of the repeats in a single molecule. SEQ ID NO: 162 which show the recombinant molecule has been marked up as Appendix Tab A, to show the multiple repeats present in a single molecule. Claims to be restricted to different species must be mutually exclusive. The general test as to when claims are restricted respectively to different species is the fact that one claim recites limitations which under the disclosure are found in a first species, but not in a second, while a second claim recites limitations disclosed only from the second species and not the first. MPEP § 12.0[3][c]. As can be seen from an inspection of the recombinant molecule shown in SEQ ID NO: 162, CA125 molecule within the scope of claim 1(b) may have multiple

repeat domains which are not mutually exclusive. Consequently, Applicants respectfully request examination on the multiple repeat domains as claimed. This requirement to elect a single combination of repeats violates the basic right of the Applicants to claim his invention as he chooses. In re Weber, 580 F.2d 455 (USCC 1978).

II. Restriction is not appropriate if the claims are directed to substantially the same molecule

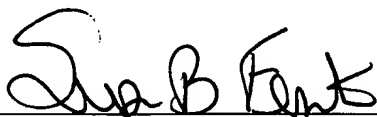
Species are patentably distinct when they are related, but they are capable of separate manufacture and are patentable (novel and nonobvious) over each other. The multiple repeat domains contain multiple repeats wherein each repeat unit has five genomic exons. The variation in repeats set out in Claim 1 (b) are 82% identical and thus present related chemical compounds. The repeat domain is a sequence of 156 amino acids which are repeated multiple times within a discrete portion of the CA125 protein. The repeat domain has its own function and combines with the other domains to provide the overall function of the protein. The designated exons in the repeat domain can vary, but, this variance is minimal. Importantly, when the nucleic acids are expressed they form a CA125 protein. Restriction is not appropriate if claims are directed to the same protein.

In view of the above, withdrawal of the Requirement for the Restriction is requested, and an early action on the merits of the Claims is courteously solicited.

Respectfully Submitted,

BUTLER, SNOW, O'MARA,
STEVENS & CANNADA

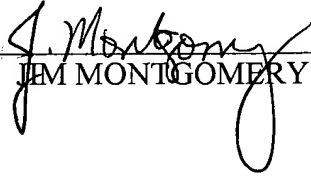
Date: 10-5-03

By: 

Susan B. Fentress
Registration No. 31,327
6075 Poplar Avenue, Suite 500
Memphis, TN 38187
Telephone: 901-680-7319

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail, postage prepaid, on 10/5/2005, in a package addressed to: Mail Stop: AMENDMENT Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.


JIM MONTGOMERY

MEMPHIS 171783v1

multiple repeat domain

BEST AVAILABLE COPY

164
A TVPFMVPFTL NFTITNLQYE EDMRHPGSRK

12101 FNATERELQG ¹⁹⁵HLKPLFRNSS LEYLYSGCRL ASLHPEKDSS AMAVDAICTH
12151 RPDPEDLGLD ²²²RERLYWELSN LTNGIQELGP YTLDRNSLYV ²⁵⁰NQFTHRSSMP
12201 ²⁷⁸TTSTPGTSTV DVGTSGTPSS SPSP ²⁷¹
12251
12301
12351 ²¹⁹
12401 ²⁰¹LQYGEDMGHP GSRKFNTTER VLQGLGPIF KNTSVGPLYG GCRLTSLRSE
12451 ²³⁴KDGAATGVDA ICIHHLDPKS PGLNRERLYW ELSQLTNGIK ELGPYTLDRN
12501 ²⁵²SLYVNCFTHR ²⁸⁰TSVPTSSTPG TSTVDLGTSG TPFSLPSPAT ²⁰²
12551 ¹⁷⁰
12601 ²³⁵
12651 ²⁰⁷
12701 ¹⁸²VPFTLNFTIT NLQYEEDMHH PGSRKFNTTE RVLOGILGPM ²⁰²FKNTSVGLLY
12751 ²³⁶SGCRLTLLRS EKDGAATGVD AICTHRLDPK SPGVDTREQLY WELSQLTNGI
12801 ²⁴³KELGPYTLDNR NSLYVNCFTH ²⁸³QTSAPNTSTP GTSTVDLGTS GTPSSSLPSP
12851 ¹⁷⁰
12901 ²³⁶
12951 ²¹⁰⁵
13001 ¹⁸³
13051 ²⁰²PMFKNTSVGL LYSGCRLTLL ²⁴⁰HPEKNGAATG MDAICSHRLD PKSPGLNREQ
13101 ²⁵⁰LYWELSOLTH GIKELGPYTL DRNSLYVNCFTHRSSVAPTS TPGTSTVDLG
13151 ²⁸³
13201 ²⁰⁵
13251 ²⁵⁷
13301 ¹⁷⁷
13351 ²⁰⁷NATERVLQGL LSPIFKNSSV GPLYSGCRLT SLHPEKDGAATGM DAVCLYH
13401 ²²⁷PNPKRPGGLDR EQLYWELSOL THNITELGPY SLDRDSLYVN ²⁴⁵GTHONSVP
13451 ²⁸⁰TSPTGTSTVY WATTGTPSSF PGHTPGPLL ¹⁸⁰IPFTNFETIT NLHYEENMQH

13501 PGSRKFNTE RVLQGLKPL FKNTSVGPLY SGCRLTSLR EKDGAATGMD ²⁰⁰
 13551 AVCLYHPNPK RPLDREQLY CELSQLTHNI TELGPYSLDR DSLYVNGFTH ²²⁸
 13601 QNSVPTTSTP GTSTVYWATT GTPSSFPGHT EPGPLLIPT FNFTITNLHY ²⁰⁵ ²⁸⁰ ¹⁸⁶
 13651 EENMQHPGSR KFNTERVLQ GILKPLFKNT SVGPLYSGCR LTLRLPEKHE ¹⁹⁷
 13701 AATGVDICT HRVDPIGPG LDRERLYWELS QLTNSITELG PYTLDRDSLY ²⁴⁴
 13751 VNGFNPRSSV PTTSTPGTST VHLATSGTPS SLPGHAPVP LLITFTLNFT ²⁷¹ ²⁸⁷
 13801 ITNLHYEENM QHPGSRKFNTERVLOGLK PLFKNTSVGP LYSGCRLTLL ¹⁸⁸ ¹⁹⁷
 13851 RPEKHEAATG VDTICTHRVD PIGPGLDREX LYWELSXLTX XIXELGPYXL ²
 13901 DRXSLYVNGF XXXXXXXXTS TPGTSXVXLX TSGTPXXXXPX XISAGPLLVP ² [?]
 13951 FTLNFTITNL QYEEDMHHPG SRKFNTERV LQGLGPMFK NTSVGLLYSG ¹⁸³ ²⁰²
 14001 CRLTLLEFEN KGAATGMDHFCRLKLPKSP GLDKELTYWE ESQLTHNI ²⁴¹
 14051 LGPYTLDRNS LYVNGFTHRS SVAPTSTPGT STVDLGTSST PSSLPSPFA ²⁵⁰ ²⁸³
 14101 VPLLVPETLN FTITNLQYGE DMRHPSGRKF NTERVLOGL LGPLFKNSSV ¹⁶⁵
 14151 GPLYSGCRLI SLRSEKDGAA TGVDICTHH LNPQSPGLDR EQLYWQLSQM ²⁰⁵ ²³⁸
 14201 TNGIKELGPY TLDNRSLYVN FTHRSSGLT TSTPWTSTVD LGTSGTPSPV ²⁵⁷ ²⁸⁵
 14251 PSPTTAGPLL VPFTLNFTIT NLQYEEDMHR PGSRKFNTE RVLQGLLSPI ¹⁷⁷
 14301 FKNSSVGPLY SGCRLTSLR EKDGAATGMD AVCLYHPNPK RPLDREQLY ²⁰⁷ ²²⁷
 14351 WELSQLTHNI TELGPYSLDR DSLYVNGFTH QSSMTTTRTP DTSTMHLATS ²⁰⁰
 14401 RTPASLSGPT TASPLLVLFT INCTITNLQY EEDMRRTGSR KFNTEMESVLQ ²⁸⁹ ¹⁷²
 14451 GILKPLFKNT SVGPLYSGCR LTLRLPKKDG AATGVDAICT HRLDPKSPGL ¹⁹⁷ ²²⁴
 14501 NREQLYWELS KLTNDIEELG PYTLDRNSLY VNGFTHQSSV STTSTPGTST ²⁶²
 14551 VDLRTSGTPS SLSSPTIMXX XPLLXPFTLN FTITNLXYEE XMXXPGSRKF ²⁷⁹ [?]
 14601 NTERVLOGL LRPLFKNTSV SLYSGCRLT LLRPEKDGAA TRVDAACTYR ²¹⁰
 14651 PDPKSPGLDR EQLYWELSQL THSTTELGPY TLRKVTLYVN TPNPRSSVPT ²²⁹ ²⁷¹
 14701 TSTPGTSTVH LATSGTPSSL PGHTXXXPLL XPFTLNFTIT NLXYEEXMXX ²⁸⁷ [?]
 14751 PGSRKFNTE RVLQGLKPL FRNSSLEYLY SGCRLASLR EKDSSAMAVD ¹⁹⁵
 14801 AICTHRPOPE DLGLDRERLY WELSNLTNGI QELGPYTLDR NSLYVNGFTH ²²²
 14851 RSSFLTSTP WTSTVDLGTS GTPSPVPSPT TAGPLLVPFT LNFTITNLQY ²⁵⁹ ²⁸⁵

16351 ²NGAATGMDAJ ²THRLDPKSP ²GLDREXLYWE ²LSKLTXXIXE ²LGPYXLDKXS
 16401 ²LYVNG ²FXXXX ²XXXXTST ²PGT ²SVXLXTSGT ²PXXXPXXTX ²XPLLXPFTLN
 16451 ²FTITNLXYE ²KXXPGSRKF ²NTTERVLQGL ²LKPLFRMSGL ¹⁹⁵EYLYSGCRLA
 16501 ²²²SLP ²²²PEKDSSA ²²²MAVDAICTHR ²²²PDPEDLGLDR ²²²ERLYWELSNL ²²²TNGIQELGPY
 16551 ²⁵⁰TLDRNSLYVN ²⁵⁰G ²⁵⁰THRSSMPT ²⁵⁰TST ²⁷⁸PGTSTVD ²⁷⁸VGTSPTSSS ²⁷⁸PSPITAGPLL
 16601 ¹⁷⁴IPFTLNFTIT ¹⁷⁴NLOYGEDMGH ¹⁷⁴PGSRKFNTTE ¹⁷⁴RVLOCHLCRI ²⁰¹FKNTSVGPLY
 16651 ²³⁴SGCRLTSLR ²³⁴EKDGAATGVD ²³⁴AICHHLDPK ²³⁴SPGLNRERLY ²³⁴WELSQLTNGI
 16701 ²⁵³KELGPYTLDR ²⁵³NSLYVNG ²⁵³FTH ²⁵³RTSVPTTST ²⁸⁰GTSTVDLGTS ²⁸⁰GTPFSLPSA
 16751 ¹⁷⁰TAGPLLVLEF ¹⁷⁰LNFTITNLKY ¹⁷⁰EEDMHRPGSR ¹⁷⁰KFNTTERVLQ ¹⁷⁰TILGPMFKNT
 16801 ²⁰²SVGLLYSGCR ²⁰²LTLLR ²⁰²SEKDG ²⁰²AATGVDAICT ²⁰²HRLDPKSPGL ²⁰²DREXLYWELS
 16851 ²XLTXIXELG ²PYXLDKXSLY ²VNG ²FXXXXXX ²XTST ²PGTSX ²VXLXTSGTPX
 16901 ²XXPXX ²XXXXP ²LLXPFTLNFT ²ITNLXYEEXM ²XXPGSRKFNT ²TERVLQGLR
 16951 ²¹⁵PVFKNTSVGP ²¹⁵LYSGCRLTLL ²¹⁵RPKKDGAATK ²³⁰VDAICTYRPD ²³⁰PKSPGLDREQ
 17001 ²⁰¹LYWELSOLTH ²⁰¹SITELGPYTQ ²⁰¹DRDSLYVNG ²⁰¹FTHRSSVPTTS ²⁰¹PGTSAVHLE
 17051 ²⁹¹TTGTPSSFPG ²⁹¹HTEPGPLLIP ¹⁸⁷FTFNFTITNL ¹⁸⁷RYEENMOHPG ¹⁸⁷SRKFNTTERV
 17101 ²¹⁸LOGIL ²¹⁸TPLFK ²¹⁸NTSVGPLYSG ²¹⁸CRLTLLR ²¹⁸PEK ²¹⁸QEAATGVDTI ²¹⁸CTHRVDPIGP
 17151 ²⁴⁰GLDRERLYWE ²⁴⁰LSQLTNSITE ²⁴⁰LGPYTLDRDS ²⁷²LYVD ²⁷²FNWSSVPTTST ²⁷²PGT
 17201 ²⁸⁸STVHLATSGT ²⁸⁸PSPLPGHTAP ²⁸⁸VPLLIPFTLN ¹⁸⁹FTITDLHYEE ¹⁸⁹NMOHPGSRKF
 17251 ¹⁹⁸NTTERVLQGL ¹⁹⁸LKPLFKSTSV ¹⁹⁸GPLYSGCRLT ¹⁹⁸LLR ¹⁹⁸PEKHGAA ¹⁹⁸TGVDAICTLR
 17301 ²⁴³LDPTGPGLDR ²⁴³ERLYWELSOL ²⁴³TNSITELGPY ²⁷²TLDRDSLYVN ²⁷²FNWSSVPT
 17351 ²⁸⁷TST ²⁸⁷PGTSTVH ²⁸⁷LATSGTPSSL ²⁸⁷PGHT ¹⁹¹TAGPLL ¹⁹¹VPFTLNFTIT ¹⁹¹NLKYEEDMHC
 17401 ²⁰³PGSRKFNTTE ²⁰³RVLOSL ²⁰³HGPM ²⁰³FKNTSVGPLY ²⁰³SGCRLTLLR ²⁰³EKDGAATGVD
 17451 ²AICTHRLDPK ²SPGLDREXLY ²WELSXLTXIXE ²XELGPYXLDK ²XSLYVNG ²FXX
 17501 ²XXXXXTST ²PGT ²SVXLXTSGT ²GTPXXXPXXT ²XXXXPLLXPFT ²LNFTITNLXY
 17551 ²EEXMXXPGSR ²KFNTTERVLQ ²G ²LXPXFKXT ²SVGXLYSGCR ²LTLLR ²PEKXX
 17601 ²AATXVDXXCX ²XXDPXXPGL ²DREXLYWELS ²XLTNISITELG ²PYTLDRDSLY
 17651 ²⁵¹VNG ²⁵¹THRSSM ²⁵¹PTTS ²⁹⁰PGTSA ²⁹⁰VHLETSGTPA ²⁹⁰SLPGHTAPGP ²⁹⁰LLVPFTLNFT
 17701 ¹⁶⁸ITNLQYEEDM ¹⁶⁸RHPGSRKFNT ¹⁶⁸TERVLQGL ¹⁶⁸PK ¹⁶⁸PLFKSTSVGP ¹⁶⁸LYSGCRLTLL

17751 RPEKRGAAATG VDTICTHRLD PLNPGLDREX LYWELSXLTX XIXELGPYXL
 17801 DRXSLYVNGF XXXXXXXXTS TPGTSXVXLX TSGTPXXXXPX XTXXXPLLXP
 17851 FTLNFTITNL XYEEXMXXPG SRKFNTTTERV LQGLXPXFK XTSVGXLYSG
 17901 CRLTLLEK XKAATXVDXX CXXXXDPXXP GLDREXLYWE LSXLTXIXE
 17951 LGPYXLDXRS LYVNGFHPRS SVPTTSTPGT STVHLATSGT PSSLPGHTAP
 18001 VPLLIPFTLN FTITNLHYEE NMQHPGSRKF NTTERVLQGL LGPMFKNTSV
 18051 GLLYSGCRLT LLRPEKNGAA TGMDAICSHR LDPKSPGLDR EXLYWELSXL
 18101 TXXIXELGPY XLDXSLYVN QFXXXXXXX TSTPGTSXVX LXTSGTPXXX
 18151 PXXTXXXPLL XPFTLNFTIT NLXYEEXMXX PGRKFNTTE RVLQGLXPX
 18201 FKXTSVGXLY SGCRLTLLEK EKXKAATXVD XXXXXXXDPX XPGLDREXLY
 18251 WELSXLTXXI XELGPYXLDX XSLYVNGFTH QNSVPTTSTP GTSTVYWATT
 18301 GTPSSFPGHT EPGPLLIPFT FNFTITNLHY EENMQHPGSR KFNTTERVLQ
 18351 GILTPLFKNT SVGPLYSGCR LTLLEKQE AATGVDICT HRVDFIGPGL
 18401 DREXLYWELS XLTXIXELG PYXLDXSLY VNGFXXXXXX XXTSTPGTSX
 18451 VXLXTSGTPX XXXXTXXXP LLXPFTLNFT ITNLXYEEXM XPGSRKFNT
 18501 TERVLQGLX PFKXTSVGX LYSGCRLTLL EKKXKAATX VDXCXXXXD
 18551 PXXPGLDREX LYWELSXLTX XIXELGPYXL DRXSLYVNGF THRSSVPTTS
 18601 SPTSTVHLA TSGTPSSLPG HTAPVPLLIP FTLNFTITNL HYEENMQHPG
 18651 SRKFNTTTERV LQGLKPLEK STSVGPLYSG CRLTLLEK HGAATGVDAI
 18701 CTRLDPTGP GLDREXLYWE LSXLTXIXE LGPYXLDXRS LYVNGFXXXX
 18751 XXXXTSTPGT SXVXLXTSGT PXXXPXXTXX XPLLXPFTLN FTITNLXYEE
 18801 XMXXPGRKF NTTERVLQGL LXPXFKXTSV GXLYSGCRLT LLRPEKXXAA
 18851 TXVDXXCXXX XDPXXPGLDR EXLYWELSXL TXXIXELGPY XLDXSLYVN
 18901 QFTHRTSVPT TSTPGTSTVH LATSGTPSSL PGHTAPVPLL IPFTLNFTIT
 18951 NLQYEEDMHR PGRKFNTTE RVLQGLSPI FKNSSVGPLY SGCRLTSLR
 19001 EKDGAAATGMD AVCLYHPNPK RPLDREQLY CELSQLTHNI TELGPYSLDR
 19051 DSLYVNGFTH QNSVPTTSTP GTSTVYWATT GTPSSFPGHT XXXPLLXPFT
 19101 LNFTITNLXY EEXMXXPGSR KFNTTERVLQ GILXPXFKXT SVGXLYSGCR
 19151 LTLLEKXX AATXVDXXCX XXXDPXXPGL DREXLYWELS XLTXIXELG

19201 PYXLDXSLY VNG²⁶⁹FWSSG LTTST²⁸⁵PWTST VDLGTSGTPS PVPSPITAGP
 19251 LLVPFTLNFT ITNLQYEEDM¹⁷⁷ HRPGRKFN² T²ERVLOGIL²LS PIFKNTSVGP
 19301²⁰⁸ LYSGCRLTLL R²PEKQEAATG VDTICTHRVD² PIGPGLDREX LYWELSXLTX
 19351 XIXELGPYXL DRXSLYVNG²F XXXXXXXX²TS T²PGTSXVXLX² TSGTPXXXPX
 19401 X²XXXXPLLXP FTLNFTITNL XYEEXMXXPG SRKFNTT²ERV LOGIL²LXPXFK
 19451 XTSVGXLYSG CRLTLLR²KEK XXAATXVDXX CXXXXDPXXP GLDREXLYWE
 19501 LSXLTXIXE LGPYXLDXRS LYVNG²⁵⁸FTHRS FGLTTST²⁸⁵PWT STVDLGTSGT
 19551 PSPVPSPITA¹⁷⁹ GPLLVFPTLN FTITNLQYEE DMHRPGSRKF NTTERVLOGIL²
 19601 LTPLFRTSV²¹⁹ SSLYSGCRLT LL²PEKDGA TRVDAVCTHR PDPKSPGLDR
 19651 EXLYWELSXL TXXIXELGPY XLDXSLYVN² F²XXXXXXXXX TST²PGTSXVX
 19701 LXTSGTPXXX² PXXT²XXXXPLL XPFTLNFTIT NLXYEEXMXX PGSRKFNTE
 19751 RVLOGIL²LXPX FKXTSVGXLY SGCRLTLLR² EKXXAATXVD XXCXXXXDPX
 19801 XPGLDREXLY WELSXLTXI² XELGPYXLD²⁶⁷ XS²LYVNG²FTH WIPVPTSST²
 19851²⁸¹ GTSTVDLGSG TPSSLPST¹⁷⁵ AGPLLVFTL NFTITNLQYG EDMGHPGSRK
 19901 FNTTERVLOG²⁰¹ ILGPIFKNTS VGPLYSGCRL TSLR²SEKGA ATGVDAICIH
 19951 HLDPKSPGLD REXLYWELSX LTXXIXELGP YXLDXSLYV N²G²XXXXXXXXX
 20001 XTST²PGTSXV XLXTSGTPXX XPXX²XXXXPL LX²PFTLNFTI² TNLXYEEXMX
 20051 XPGSRKFNTT ERVLOGIL²LXP XFKXTSVGXL YSGCRLTLLR² XE²XXXXAATXV
 20101 DXXCXXXXDP XXPGLDREXL YWELSXLTX IXELGPYXLD RXSLYVNG²F
 20151²⁶⁴ HQTFAPNTST²⁸³ PGTSTVDLGT SGT²PSSLPSP T²AGPLLVPF TLNFTITNLQ
 20201¹⁸³ YEEDMHPGS RKFNTT²ERV L²QILGPMFKN²⁰² TSVGLLYSGC RLTL²LR²PEKN
 20251 GAATRVDAVC THRPDPKSPG LDREXLYWEL SXLTXXIXEL GPYXLDXSL
 20301 YVNG²FXXXXX² XXXTST²PGTS XVXLXTSGTP XXXPXX²TAPV PLLIPFTLNF
 20351¹⁸⁸ TITNLHYEEN MQHPGSRKFNT² T²ERVLOGIL²¹³ RPLFKSTSVG PLYSGCRLTL
 20401 L²PEKHGAAT GVD²⁴²AICTRLR DPTGPGLDRE RLYWELSOLT NSVTELGPYT
 20451 LDRDSLYVNG²⁷³ FTORSSVPTT²⁹⁰ SI²PGTSAVHL ETS²GPASLP GHT²APGPLLV
 20501¹⁶⁹ PFTLNFTITN LOYEVDMRHP GSRKFNTT²ER VLOGIL¹⁹⁸ LKPLF KSTSVGPLY
 20551²³⁹ GCRLTLLR²PE KRGAAATGVD² ICTHRLDPLN PGLDREQLYW ELSKLTRGII

20601 ELGPYLLDRG SLYVNG²⁶⁰ETHR NFVPITST²⁹²PG TSTVHLGTSE TPSSSLPRPT¹⁶⁰V
 20651 PGPLLVPFTL N²¹²FTITNLQYE EAMRH²⁴⁷PGSRK FNTT²⁴⁷ERVLOG I²⁴⁷LRPLFKNTS
 20701 IGPLYSSCRL TLL²¹²PEKDKA ATRVDAICTH HPDPQSPGLN REQLYWELSQ
 20751 LTHGITELGP YTLDRDSLYV D²⁶⁸ETHWSPIP TTST²⁹³PGTSIV NLGTSGIPPS
 20801 LPETT²XXXPL LXPFTLNFTI TNLXYEEXMX XPGSRKFNTT ERVLOGI²LKP
 20851 LFKSTSVGPL YSGCRLTLR¹⁹⁸PEKDG²³³VATRV DAICTHRPDP KIPGLDRQOL
 20901 YWELSOLTHS ITELGPYTLD RDSLYVNG²⁷⁴FT QRSSVPTTST²⁷⁴PGTFTVQPET
 20951 SETPSSLPGP TATGPVLLPF TLNFTITNLQ²⁹⁴YEEDMHRPGS RKFNTT¹⁸¹ERV
 21001 OGIL²²⁰MPLEFKN TSVSSLYSGC RLTLR²²⁰PEKD GAATRVDAVC THRPDPKSPG
 21051 LDRERLYWKL SOLTHGITEL GPYTLDRA²³²SL YVNG²⁶⁰ETHQSS MTTT²⁶⁰RPOTS
 21101 TMHLATSRT²⁸⁹P ASLSGPT²⁸⁹AS PLLVLETINF TITNLRYEEN MHRPGSRKFEN
 21151 TTERVLOGI²¹⁵L RPVFKNTSVG PLYSGCRLTL L²¹⁵PKKDGAAT KVDAICTYRP
 21201 DPKSPGLDRE QLYWELSOLT HSITELGPYT QDRDSLYNVG²³¹FTQRSSVPTT²⁷⁵
 21251 SV²⁹⁵PGTPTVDL GTSGTPVSKP GPS²⁹⁵AASPLL¹⁹⁰V LFTLNGTITN LRYEENMQHP
 21301 GSRKFNTT²¹⁶ER VLOGI²¹⁶LRSLE KSTSVGPLY²¹⁶YS GCRLTLLE²¹⁶PE KDGTATGVDA
 21351 ICTHHPDPKS PRLDREQLYW ELSQLTHNIT ELGHYALDND SLFVNG²²⁵ETHR
 21401 SSVSTT²⁵⁵ST²⁹⁰PG TPTVYL²⁹⁰GASK TPASIFGPS²⁹⁰A ASHLLILETL N¹⁹²FTITNLRYE
 21451 ENMWPGSRKF NTTERVLOGL²¹¹L²¹¹LRPLFKNTSV GPLYSGSRLT LL²¹¹PEKDG²¹¹EA
 21501 TGVD²²⁶AICTHR PDPTGPG²²⁶LDR EQLYLELSQL THSITELGPY TLD²²⁶RDSLYVN
 21551 G²⁵⁴ETHRSSVPT TS²⁵⁴GVVSEEP FTLNFTINN¹⁹³L RYMADMGQPG SLKF¹⁹³NITDNV
 21601 MKHIL²⁰⁹SPLEQ RSSLGARYTG CRVIAL²⁰⁹FSVK NGAETRVDLL CTYLOPLSGP
 21651 GLPIKQVFHE LSQOTHG²⁴⁸ITR LGPYS²⁴⁸LDKDS LYLN²⁷⁰G²⁷⁰NEPG LDEPPT²⁷⁰TPKP
 21701 ATTFLPPLSE ATT²⁹⁷MGYHLK TLTLNFTISN LQYSPDMGKG SATFNSTEGV¹⁹⁴
 21751 LOHL²²¹LRPLEQ KSSMGPFYLG CQLISLR²²¹PEK DGAATGVDDT CTYHPDFVGP
 21801 GLDIQQLYWE LSQ²⁴⁹THGVTQ LGFYVLDROS LFING²⁴⁹APON LSIRGEY²⁴⁹QIN
 21851 FHIVNWNLSN PDPT²⁹⁸SSEY²⁹⁸